

WHAT IS CLAIMED IS:

1. A recording apparatus comprising:
recording mode setting means for setting a
first recording mode for recording image data having
5 a first information quantity per unit time, and a
second recording mode for recording image data having
a second information quantity larger than the first
information quantity per unit time;
recording means for recording image data on a
10 recording medium; and
control means for controlling said recording
means to record on the recording medium still image
data and detection data for detecting still image
according to recording instruction of the still image,
15 wherein said control means controls said
recording means to record on the recording medium the
still image data of the first recording mode and the
detection data for detecting the still image data for
a first predetermined period when the first recording
20 mode is set by said recording mode setting means, and
to record on the second recording medium the still
image of the recording medium and the detection data
for a second predetermined period different in length
from the first predetermined period when the second
25 recording mode is set, and wherein a length of the
first predetermined period is set according to the
first recording mode, and a length of the second

predetermined period is set according to the second recording mode.

2. An apparatus according to claim 1, wherein
5 said control means controls said recording means to record the detection data on the recording medium at a predetermined timing defined according to each of the first and second recording modes.

10 3. An apparatus according to claim 2, wherein when the first recording mode is set by said recording mode setting means, said control means controls said recording means to record the detection data by multiplexing the detection data on the image 15 data for a period shorter than, and substantially positioned in the middle of the first predetermined period.

4. An apparatus according to claim 2, wherein
20 when the second recording mode is set, said control means controls said recording means to record the detection data by multiplexing the detection data on the still image data from a head portion of the second predetermined period.

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5. An apparatus according to claim 1, wherein said recording means records the image data of one

frame in an n number of tracks (n is an integer of 1 or more) on the recording medium on the first recording mode, and the image data of one frame in an $2 \times n$ number of tracks on the recording medium on the 5 second recording mode.

6. An apparatus according to claim 1, wherein a length of the first predetermined period is shorter than the second predetermined period.

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7. An apparatus according to claim 1, wherein the second recording mode is set according to SD specifications defined by HD Digital VCR Council, and the first recording mode is set according to SD High 15 Compression Specifications defined by HD Digital VCR Council.

8. An apparatus according to claim 7, wherein the detection data is a photo picture ID (PPID) 20 defined by HD Digital VCR Council.

9. A recording apparatus having a first recording mode for recording image data having a first information quantity per unit time and a second 25 recording mode for recording image data having a second information quantity larger than the first information quantity per unit time, and including a

mode switch for setting the first and second recording modes,

wherein when the first recording mode is set by said mode switch, still image data and detection data for detecting the still image data are recorded on a recording medium on the first recording mode for a first predetermined period according to instruction of still image recording, and when the second recording mode is set by said mode switch, the still image and the detection data are recorded on the recording medium on the second recording mode for a second predetermined period different in length from the first predetermined period according to the instruction of still image recording, and wherein a length of the first predetermined period is set according to the first recording mode, and a length of the second predetermined period is set according to the second recording mode.